BMH0702T16F2A

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, with brake, IP54, 16bit encoder





Main Product or component Servo motor type Device short name вмн Maximum mechanical 8000 rpm 2.5 N.M for LXM32.D30M2 at 10 A, 115 V, single Continuous stall torque 2.5 N.m for LXM32.D18M2 at 6 A, 230 V, single Peak stall torque 6.4 N.M for LXM32.D30M2 at 10 A, 115 V, single 7.4 N.m for LXM32.D18M2 at 6 A, 230 V, single phase Nominal output power 600 W for LXM32.D30M2 at 10 A, 115 V, single phase 900 W for LXM32.D18M2 at 6 A, 230 V, single phase 2.3 N.M for LXM32.D30M2 at 10 A, 115 V, single Nominal torque 2.1 N.m for LXM32.D18M2 at 6 A, 230 V, single phase 2500 rpm for LXM32.D30M2 at 10 A, 115 V, single Nominal speed 4000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase LXM32.D30M2 at 115 V single phase Product compatibility LXM32.D18M2 at 230 V single phase Shaft end Keyed IP degree of protection IP54 standard Speed feedback 32768 points/turn resolution Holding brake With

International standard flange

Rotatable right-angled connectors

Complementary

Complementary							
Range compatibility	Lexium 32						
[Us] rated supply voltage	240 V						
Network number of phases	Three phase						
Continuous stall current	5.38 A						
Continuous power	1.51 W						
Maximum current Irms	15 A for LXM32.D30M2 17.5 A for LXM32.D18M2						
Maximum permanent current	17.71 A						
Second shaft	Without second shaft end	Without second shaft end					
Shaft diameter	11 mm						
Shaft length	23 mm						
Key width	18 mm						
Feedback type	Single turn SinCos Hiperface						
Holding torque	3 N.m holding brake						
Motor flange size	70 mm						

Mounting support

Electrical connection

Number of motor stacks	2
Torque constant	0.46 N.m/A at 120 °C
Back emf constant	29.6 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	1.24 kg.cm²
Stator resistance	1.15 Ohm at 20 °C
Stator inductance	3.6 mH at 20 °C
Stator electrical time constant	3.1 ms at 20 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	193 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	3.3 kg

Packing Units

r doming office		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	11 cm	
Package 1 Width	20 cm	
Package 1 Length	40 cm	
Package 1 Weight	2.8 kg	

Offer Sustainability

Sustainable offer status	Green Premium product				
REACh Regulation	☑ REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
Mercury free	Yes				
China RoHS Regulation	China RoHS Declaration				
RoHS exemption information	₫Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	No need of specific recycling operations				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
PVC free	Yes				

Contractual warranty

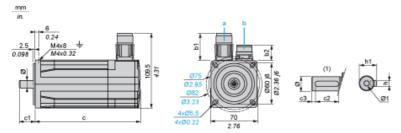
Warranty	18 months					

Product data sheet **Dimensions Drawings**

BMH0702T16F2A

Servo Motors Dimensions

Example with Straight Connectors



- Power supply for servo motor brake
- Power supply for servo motor encoder Shaft end, keyed slot (optional) b:

Dimensions in mm

_	Straight Rotatable connectors angled connectors		c (without brake)	, ,	c1 (c2	с3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 ⁺⁰ _{-0.13}	11 k6	M4 x 14

Dimensions in in.

Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

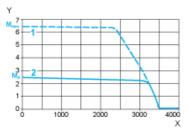
Product data sheet **Performance Curves**

BMH0702T16F2A

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

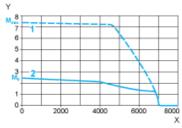


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



- X Y Speed in rpm
- Torque in Nm
- Peak torque
- Continuous torque